

Active Recombinant Human Lysyl Oxidase-Like 3, His-tagged

Cat. No. LOXL3-1979H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human LOXL3 protein was expressed in Chinese Hamster Ovary cell line. Met1-Ile753, with a C-terminal 10-Histag.
Species	Human
Source	CHO
Protein Length	1-753 a.a.
Description	LOXL3 is a secreted copper amine oxidase. The N-terminal region of LOXL3 contains four scavenger receptor cysteine-rich (SRCR) domains. The C-terminal region consists of a catalytic domain similar to other lysyl oxidases and a cytokine receptor-like domain. The catalytic domain contains conserved residues required for copper binding and formation of a lysyl tyrosylquinone cofactor. LOXL3 is expressed primarily in epidermis, kidney, aorta, and chondrocytes. The enzyme is expressed at low levels in most other tissues. Like lysyl oxidase, LOXL3 oxidizes the lysine ϵ -amino groups of a number of collagen substrates, and is also active against other primary amines. However, LOXL3 does not require proteolytic processing to be activated.
Form	Supplied as a 0.2 μ m filtered solution in MES and NaCl.
N-terminal Sequence	Ser26
Molecular Weight	82 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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Activity	Measured by its ability to produce hydrogen peroxide during the oxidation of benzylamine. The specific activity is > 1.5 pmoles/min/μg, as measured under the described conditions.
Endotoxin Level	<1.0 EU per 1 μg of the protein by the LAL method.
SDS-PAGE	90-100 kDa, reducing conditions.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie Blue stain at 5 μg per lane.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70°C as supplied. 3 months, -20 to -70°C under sterile conditions after opening.

GENE INFORMATION

Gene Name	LOXL3 lysyl oxidase-like 3 [Homo sapiens]
Official Symbol	LOXL3
Synonyms	LOXL3; lysyloxidase-like 3; LOXL; lysyl oxidase homolog 3; lysyl oxidase-like protein 3; EC 1.4.3.13
Gene ID	84695
mRNA Refseq	NM_032603
Protein Refseq	NP_115992
MIM	607163

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UniProt ID	P58215
Chromosome Location	2p13
Function	copper ion binding;metal ion binding; oxidoreductase activity; oxidoreductase activity, acting on the CH-NH2 group of donors, oxygen as acceptor; protein-lysine 6-oxidase activity; scavenger receptor activity

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